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**MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS (NTPC)
WATER AND SEWER DEPARTMENT
ENGINEERING DESIGN AND RELATED SERVICES FOR THE IMPROVEMENT,
RENEWAL AND REPLACEMENT OF THE HIALEAH AND JOHN E. PRESTON
WATER TREATMENT PLANTS, AND ASSOCIATED WATER DISTRIBUTION
SYSTEM, PIPELINES, WELLFIELDS, RE-PUMPING FACILITIES, REMOTE
STORAGE AND ITS APPURTENANT WATER FACILITIES
ISD PROJECT NO. E15-WASD-18**

The County Mayor, Miami-Dade County, pursuant to the Miami-Dade Water and Sewer Department (WASD) Consent Decree and Capital Improvement Programs Acceleration Ordinance Section 2-8.2.12 of the County Code and Chapter 287.055, Florida Statutes and Administrative Order 3-39, announces that WASD will require professional engineering and construction management services from one (1) qualified Consultant.

This project will consist of providing comprehensive engineering services to evaluate, rehabilitate and upgrade the infrastructure and operations of WASD's Hialeah and John E. Preston Water Treatment Plants and its appurtenant facilities related to capital improvement needs identified in the Multi-Year Capital Improvement Plan.

The water treatment plant projects noted below will be procured concurrently and the Prime Consultant may submit proposals for both projects, which shall be evaluated as set forth below. These projects are:

1. Project No. E15-WASD-18

Proposed Upgrades to the Hialeah and John E. Preston Water Treatment Plants and its appurtenant facilities.

2. Project No. E15-WASD-19

Proposed Upgrades to the Alexander Orr Water Treatment Plant, inclusive of the South Miami-Dade Water Supply System, which include the following plants: Leisure City, Naranja, Elevated Water Tank, Everglades Labor Camp, Newton Water Treatment Plants and ancillary facilities to those plants, as well as well fields, re-pumping facilities, remote storage and its appurtenant facilities.

The scope of services consists of complete professional engineering and construction management services, which will include such tasks as design services for plant upgrades and expansion projects, as well as renewal and replacement projects for the plant's existing facilities and associated water distribution. Renewal and replacement services include evaluation of existing equipment condition, capacity and useful life expectancy, as well as preparation of a prioritized rehabilitation or replacement schedule.

Design services may include, but are not limited to, performing preliminary site investigations, surveying, hydraulic modeling and analysis, coordinating with other utilities, preparing design reports, preparing shop drawings and contract specifications for civil, hydro-geological services, structural, mechanical and electrical projects. Services during the permitting and procurement phases may include obtaining dry-run permits, producing a final design and participating in obtaining final environmental and building permits. Construction management services are required to provide technical support during construction as needed, including site inspections and attending meetings, reviewing shop drawings, processing payment requisitions, responding

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to information requests, reviewing claims and potential change orders, reviewing contract schedules and schedule of values and reviewing as-built drawings. Project coordination services are anticipated to include establishing a plan to implement projects, establishing and tracking project schedules, preparing budgets and deadlines, preparing status reports and attending meetings as requested.

Additional tasks are anticipated to include:

1. Evaluating and formulating plans for improving or optimizing the treatment processes, including designing and conducting pilot studies and providing construction cost and operation and maintenance estimates.
2. Conducting studies and providing recommendations related to improving plant operations and efficiency, including safety, staffing, energy conservation, security, residuals management, corrosion control and asset management issues. This includes site-specific staff training, preparation of operation and maintenance manuals and operational practices manuals. The site shall also include an on-site resident at the plants.
3. Providing services for evaluating regulatory requirements, including preparation of compliance documents and reports.
4. Providing technical support and assistance for computer system data integration with the programs and systems currently utilized. Provide assistance in selecting and procuring software and hardware enhancements.
5. Providing other engineering services related to the upgrades at the water treatment plants as required, including participation on a Technical Advisory Committee.

One (1) consultant/team of firms will be retained under one (1) non-exclusive Professional Services Agreement (PSA) for an effective term of six (6) years. The estimated cost of the PSA is \$11,000,000.00, inclusive of contingencies.

The firm providing these services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

A/E TECHNICAL CERTIFICATION REQUIREMENTS

- 6.03 Water And Sanitary Sewer Systems – Water and Sanitary Sewage Treatment Plants (PRIME)**
- 11.00 General Structural Engineering (PRIME)**
- 12.00 General Mechanical Engineering (PRIME)**
- 13.00 General Electrical Engineering (PRIME)**
- 17.00 Engineering Construction Management (PRIME)**
- 6.01 Water and Sanitary Sewer Systems – Water Distribution and Sanitary Sewage Collection and Transmission
- 6.02 Water And Sanitary Sewer Systems – Major Water And Sanitary Sewage Pumping Facilities
- 9.02 Soils, Foundations and Materials Testing – Geotechnical and Materials Engineering Services
- 10.09 Environmental Engineering – Wellfield, Groundwater And Surface Water Protection And Management
- 15.01 Surveying and Mapping – Land Surveying

Experience and Qualifications

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The Team submitting a proposal should be experienced in all phases of design, permitting and construction management of a large regional water treatment plant. The Team should also have experience with condition assessments and incorporating operational knowledge into treatment plant design. The successful experience on the above items should be demonstrated prior to the date of this solicitation. The Team shall provide a list of members of the proposed design team, identifying the overall design manager(s) and the team leaders for key design specialties.

The Team shall provide descriptions of at least one (1) successfully designed, constructed and operating new or upgraded water treatment plant(s), with at least one (1) being a lime softening plant, prior to the date of the solicitation. In addition, the Team shall demonstrate past experience with other water softening technologies, such as Media Filter.

For projects in which the a Team member has served as the design consultant, the consultant shall provide the name and contact information for a Utility Executive with the Utility they served as the design consultant who can confirm their role. The descriptions shall include the client (i.e., municipality or agency), key project staff, the project name, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the consultant, the achievements (e.g., projects delivered on schedule, dollars saved, innovative designs implemented, new technology utilized) and a client reference and contact information.

The Subconsultants shall provide a description of at least one (1) project(s) that is relevant to this scope of work, completed prior to the date of this solicitation, specific to their proposed responsibilities. The descriptions shall include the client (i.e., municipality or agency), key project staff, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the Subconsultant firm, the project's achievements and client reference and contact information. Failure to provide the above information or meet the experience and qualifications required by Miami-Dade County may result in the negative evaluation of the team by the Competitive Selection Committee, or disqualification of the team, at Miami-Dade County's sole discretion.

Small Business Contract Measure Recommendation

Goals determined for this solicitation – **20% SBE/AE and 3% SBE/G&S**